in Figure 2.

Inasmuch as the proposed antenna would be top mounted on a 100-ft tower, the FAA Regional Office was notifed.

B. Proposed Antenna System & Supporting Structure

The applicant proposes to pole mount a Bogner type B16UC antenna on top of a 100-ft tower. The Center of Radiation would be 34.1 meters (112 feet) agl or 338.9 meters (1112 feet) amsl. A vertical plan sketch of the proposed antenna and its supporting structure is shown in Figure 3.

The applicant proposes to use a Bogner type B16UC antenna oriented at N-290-E where its main beam is also in this direction. The antenna is specified to have a -2 degree beam tilt. The vendor warrants that the Vertical Plane (Shape) Pattern for the B16UC antenna, as shown in Figure 6, holds in all azimuthal directions.

For a -2 degree beam tilt the B16UC antenna Vertical Plane (Shape or Form) Pattern has a relative field strength value of 0.5 at the horizon compared to a maximum value of unity or one at the depression angle of -2 degrees. The Antenna Power Gain in the horizontal plane is 0.25 of that at the depression angle. That is, multiplying the square of the Vertical Plane (Shape) Pattern value at the horizon times the maximum Power Gain of the Antenna in its main lobe results in a Power Gain in the horizontal plane of 19.75, viz,

$$G_{\text{at horz}} = (0.5)^2 \times 79.5 = 19.75 \quad .$$

The vendor warrants that the Vertical Plane (Shape) Pattern holds in all azimuthal directions; therefore, the ERP in the horizontal plane in all azimuthal directions is equal to or less than 9.0 kW as indicated by the chart in Figure 4 or plot in Figure 5.

C. Operational Specifications

It is proposed to install an Acrodyne type TLU/1KACT LPTV transmitter that is rated to deliver 1000 watts into a 50-ohm dummy load. The transmitter is type accepted for Part 74 of the Rules. The transmitter will be specifed to maintain a precise frequency offset of $\pm$ 1 kHz at a specified designation of Plus 10-kHz Carrier Offset from the standard carrier frequency on Channel 56. The Bogner LPTV type B16UC antenna with a -2 degrees beam tilt provides a power gain of 19.75 above that of a dipole (12.956 dBd) in the horizontal plane. The antenna would be oriented at N-290-E, where the main lobe would also point in this direction. A tabulation of the relative field strength in the horizontal plane is provided in

Figure 4, and a horizontal plot of these data is shown in Figure 5. The proposed transmission line would be Andrew type LDF7-50A, which has an attenuation of approximately 0.678 dB per 100 feet at the visual carrier frequency of 723.25 MHz. The efficiency for the proposed length of 140-ft length of cable is approximately 80.37 percent. To provide an Effective Rated Power of 9.0 kW in the horizontal plane relative to a dipole, the Transmitter Power Output would be 567 watts.

D. Proposed Coverage

The site is approximately 0.75 miles northwest of Red Lion so that the 74-dBu coverage contour will provide coverage over all of Red Lion and its immediate area.

E. Attended Operation

The applicant, Raystay Company, will fully comply with Section 74.734 of the Rules regarding Attended and Unattended Operation.

The applicant will employ a qualified person to be in in charge of the transmission equipment. This person may be contacted in an emergency to suspend the operation of the Low Power TV Station should such action be necessary as deemed necessary by the Commission staff.

The transmitting equipment will be provided with suitable automatic control circuits that provide the function of placing the transmitter in a non-radiation condition in the absence of a baseband video and/or aural signals at the input to the transmitter. The equipment will be secured in a locked enclosure and/or structure to insure against access capability by unauthorized persons.

Observation by a person designated by the licensee will be made daily for at least a 10-minutes duration, who will provide proper measures to assure prompt correction of any condition observed regarding improper operation.

When the transmitter cannot be reached at all hours, appropriate means will be provided so that the transmitter can be turned off at will from a designated control point that is accessable at all hours and during all seasons. The on/off control for the transmitter will be adequately protected against tampering by unauthorized persons.

The proposed tower will be painted and lighted in accordance with FAA specifications. Should the overall structural height of 38.4 meters (126 feet) agl be required to be lighted, the licensee will provide for the daily observations of the operation of the required

lighting as well as those required lighting equipment inspections.

The transmitting equipment will be checked on a regular basis to insure against spurious radiations as well as to determine full compliance with the Commission's Rules.

F. Other Services in the Area

No intermodulation problems with existing Commission licensed facilities are contemplated. However, in the unlikely event that such problems may possibly occur, the applicant will correct those cases to be in accordance with the Commission's Rules.

III. ENVIRONMENTAL CONSIDERATION

No significant environmental impact would result due to the Commission granting this applicant.

A. Environmental Impact Statement

The applicant proposes to top mount its antenna on a 30.5-meter (100-ft) tower. Such construction would be not be a Major Action.

This application would not come within Section 1.1307 of the Rules. The applicant does not propose to use high intensity lighting. No environmental impact is involved since the proposed site is not in an area that would constitute an environmental impact since it is not located in any known wilderness and/or wildlife areas, historic and/or scenic areas and will not involve extensive changes to the existing terrain features. No known migratory bird or animal path would be blocked by top mounting the proposed TV antenna on a 30.5-meter (100-ft) tower.

B. National Environmental Policy Act of 1969

This application will not result in radiofrequency radiation in excess of the applicable safety standards specified in Section 1.1307(b), that is, the exposure of workers and the general public would be based upon the recent ANSI C95.1 1982 exposure guidelines.

In the UHF TV Band the ANSI standard would limit exposure to human beings to less than $f/300$ mW/cm^2, where f is frequency in megahertz. For Channel 56, the ANSI Radio Frequency Protection guideline would be less than 2.4 mW/cm^2. Measurements on UHF TV antennas after prediction verify that as a least upper bound the Power Density, PD, would be

$$PD = \frac{EIRP}{40\pi r^2} \qquad \text{mW/cm,}$$

where EIRP is the Effective Isotropic Radiated Power in watts and r is the appropriate slant distance from the antenna radiation center in meters, for example, to head height or 7 feet (2.13 meters) above ground level. For a UHF TV antenna, such as the Bogner B16UC antenna proposed for Channel 56 at Red Lion, the EIRP in the far field is roughly equal to the sum of the Visual and Aural EIRP values, which during normal programming is approximately equal to 0.4 times the visual effective radiated power plus the aural effective radiated power times 1.64, where consideration would be given to the square of the vertical plane shape or form factor for the antenna, $f(\theta)$, viz,

$$EIRP \sim (1.64)[(0.4)ERP_{vis} + ERP_{aur}]\, f^2(\theta) \quad .$$

Setting the Power Density expression, PD, equal to 2.4 mW/cm^2, the slant distance, r, becomes,

$$r = \sqrt{\frac{(1.64)[(0.4)ERP_{vis} + ERP_{aur}]}{40\pi \times 2.4}}\; f(\theta) \text{ meters.}$$

EPA guidelines suggest a reflection co-efficient of 1.6 be adopted. Using this EPA guideline, an EPA value for r adjusted for such a reflection co-efficient would be

$$r' = 1.6\, r \quad .$$

The EPA safe slant distance from the radiation center, r', becomes,

$$r' = 0.387 \sqrt{(0.4)ERP_{vis} + ERP_{aur})}\; f(\theta) \quad \text{feet,}$$

on Channel 56.

For a visual ERP of 36,000 watts and aural ERP of 3600 watts in the main beam at the depression angle of -2 degrees the slant distance from the radiation center, r', becomes approximately 52 feet (15.8 meters) times the far-field vertical shape factor of the antenna,

$$r' = 15.8\, f(\theta) \text{ meters or } 52\, f(\theta) \text{ feet} \quad .$$

For a "worst-case" scenario where the antenna would be presumed to look straight down the tower, the vertical shape factor, $f(\theta)$, would become unity. Therefore, the minimum antenna height above ground level would be 52 feet in this "worst-case" scenario.

Inasmuch as the lowest element of the proposed antenna would be approximately 100 feet (30.5 meters) above ground level, it can be seen that no radiation hazard will exist on the ground below the antenna, even in the "worst-case" scenario. Below the horizon, for example,

near the base of the supporting tower, the real-world vertical shape factor will be less than unity as presumed for this "worst-case" scenario, whereby the slant distance from the radiation center, r', would be substantially reduced to a value less than 52 feet.

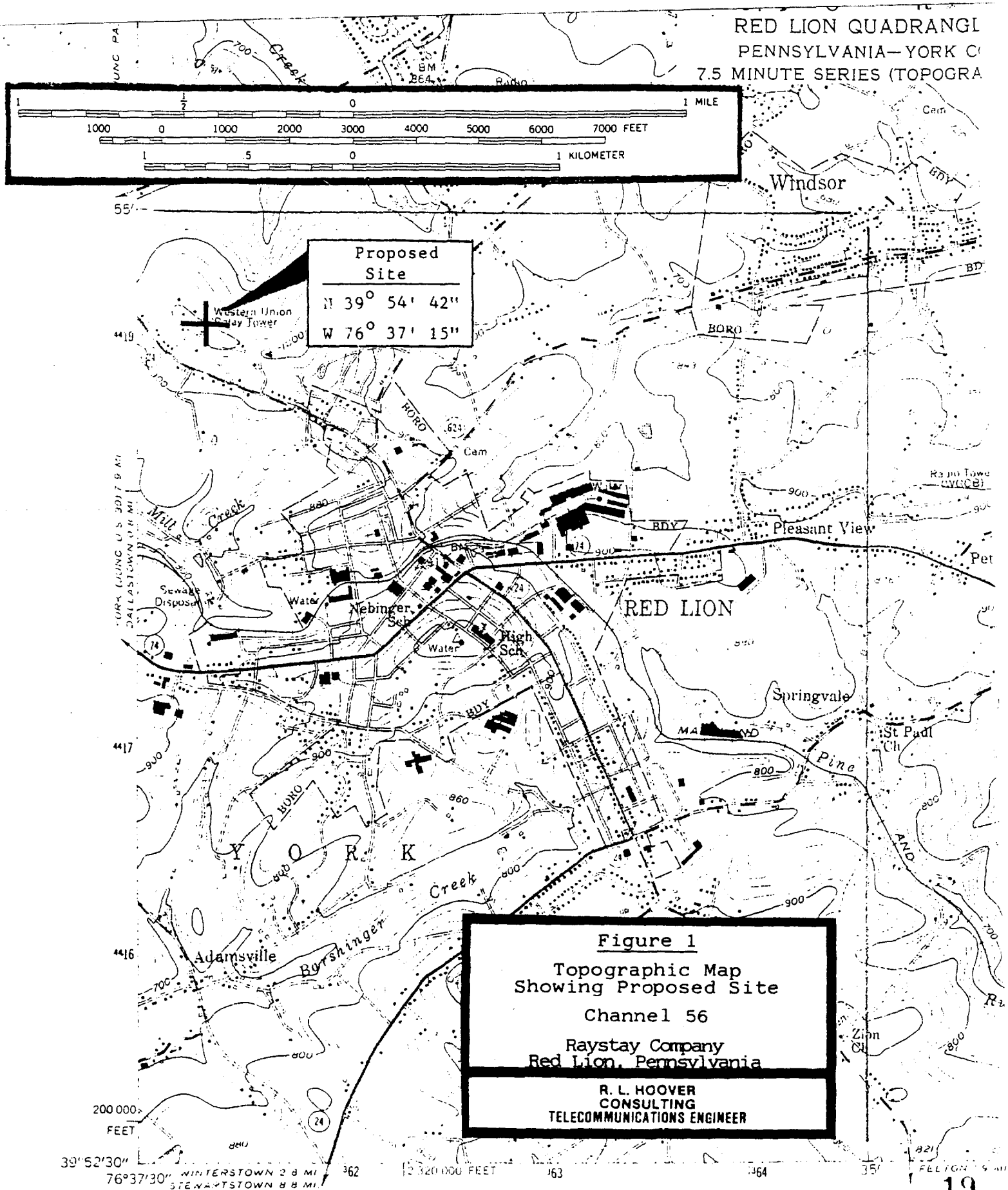
IV. SUMMARY

Raystay Company requests a Construction Permit for a new Low Power Television facility on Channel 56 with precise Plus Frequency Offset in Red Lion, Pennsylvania. The application is in full compliance with the Commission's final rules concerning Low Power Television stations.

February 21st, 1989

ROBERT LLOYD HOOVER
LICENCE NO. 11579

Robert Lloyd Hoover, PE
Maryland No. 11579


RED LION QUADRANGL
PENNSYLVANIA—YORK C
7.5 MINUTE SERIES (TOPOGRA
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER
Windsor
Proposed Site
N 39° 54' 42"
W 76° 37' 15"
Western Union Relay Tower
BORO
Mill Creek
Pleasant View
RED LION
Nebinger Sch
High Sch
Water
Springvale
St Paul Ch
Pine
Y O R K
Creek
Burshinger
Adamsville
Zion Ch
Figure 1
Topographic Map
Showing Proposed Site
Channel 56
Raystay Company
Red Lion, Pennsylvania
R. L. HOOVER
CONSULTING
TELECOMMUNICATIONS ENGINEER
39°52'30"
76°37'30"
WINTERSTOWN 2.8 MI
STEWARTSTOWN 8.8 MI
10 000 FEET
200 000 FEET
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by photogrammetric methods. Aerial photographs taken 1952. Field check 1953
Polyconic projection. 1927 North American datum
10,000-foot grid based on Pennsylvania coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks,
(GLEN ROCK) 5663 I SW
RED LION, PA
N3952.5—W7630/7.5
1953
PHOTOREVISED 1968 AND
AMS 5663 I NE-SERIES V8

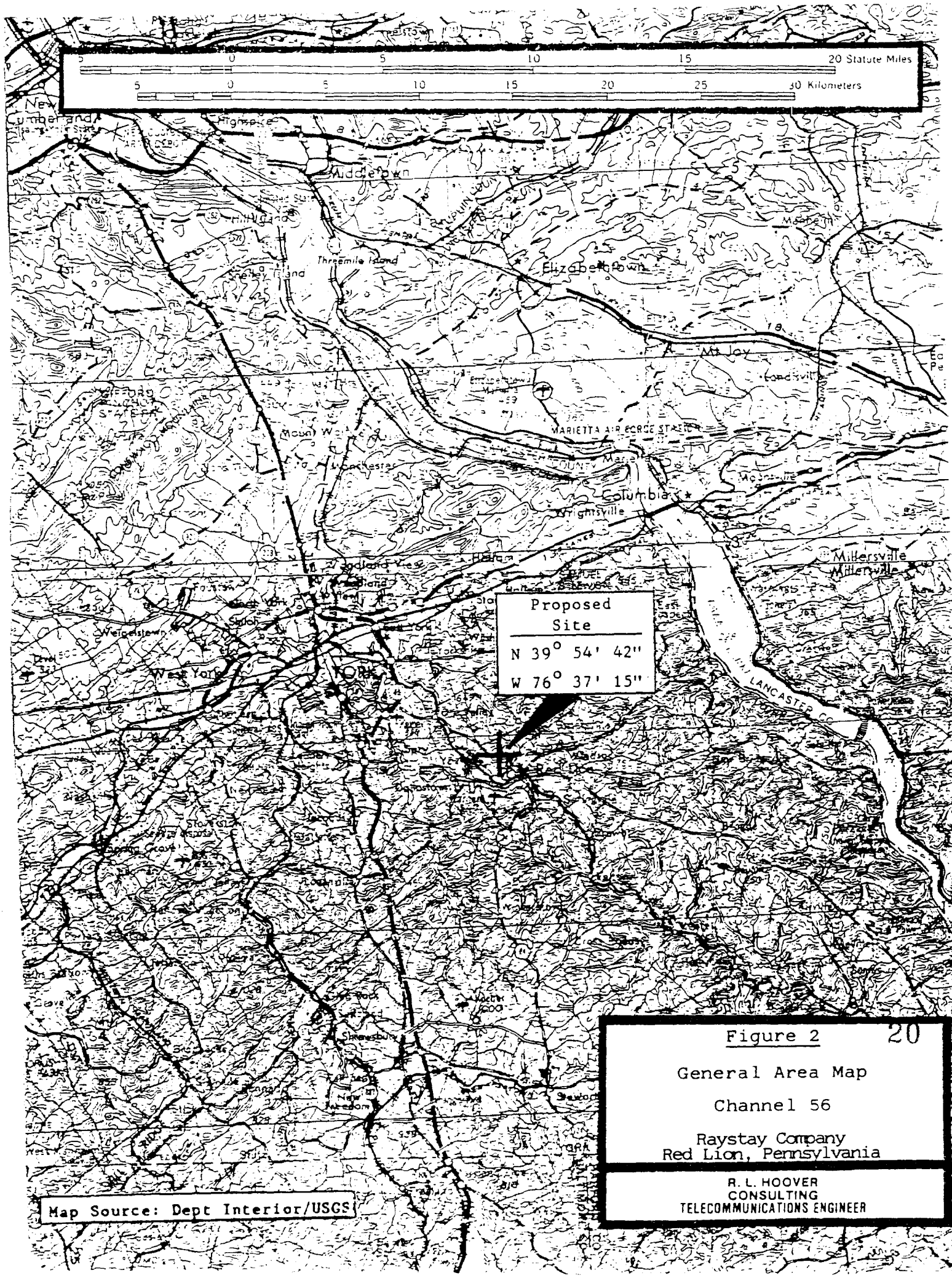


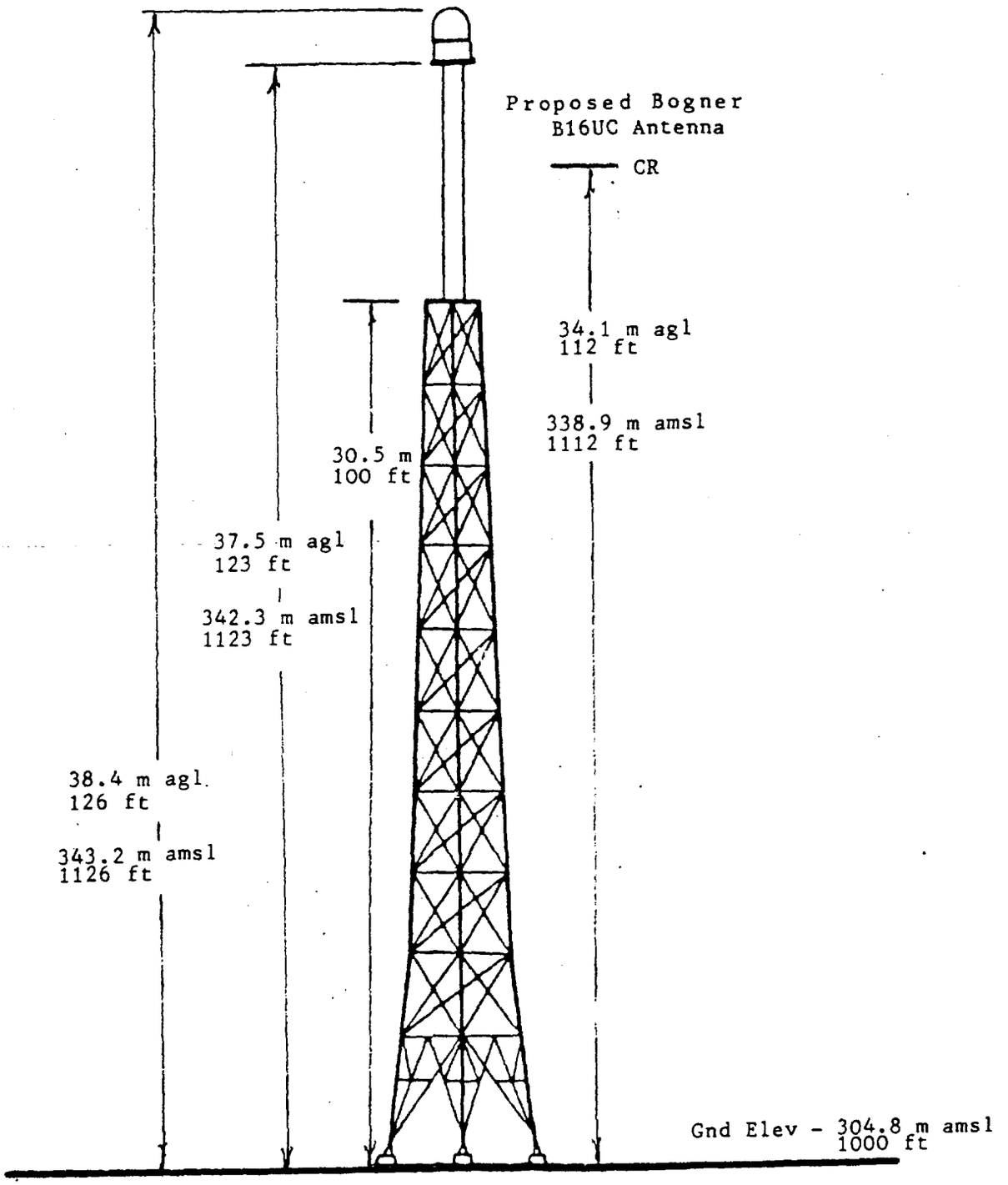
Figure 2

General Area Map

Channel 56

Raystay Company
Red Lion, Pennsylvania

R. L. HOOVER
CONSULTING
TELECOMMUNICATIONS ENGINEER



Proposed Site
N 39° 54' 42"
W 76° 37' 15"

Painted & Lighted in Accordance with FAA Specifications

Drawing not to scale

Figure 3

Vertical Plan Sketch of Supporting Structure

Channel 56

Raystay Company
Red Lion, Pennsylvania

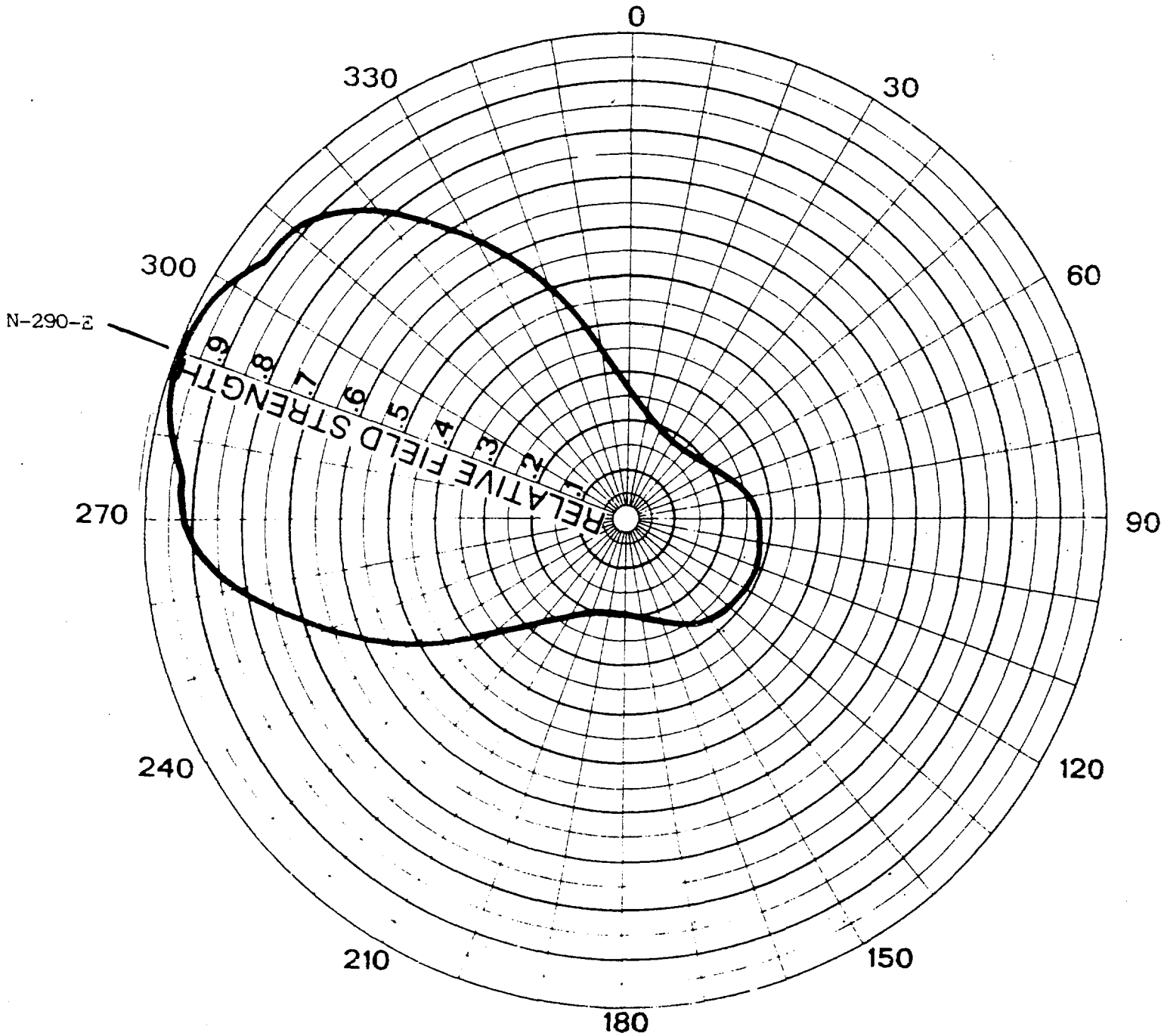
R. L. HOOVER
CONSULTING
TELECOMMUNICATIONS ENGINEER

Figure 4

Tabulation of Bogner type B16UC
Relative Field Strength in the Horizontal Plane
from the Commission's Files

Channel 56
Raystay Company
Red Lion, Pennsylvania

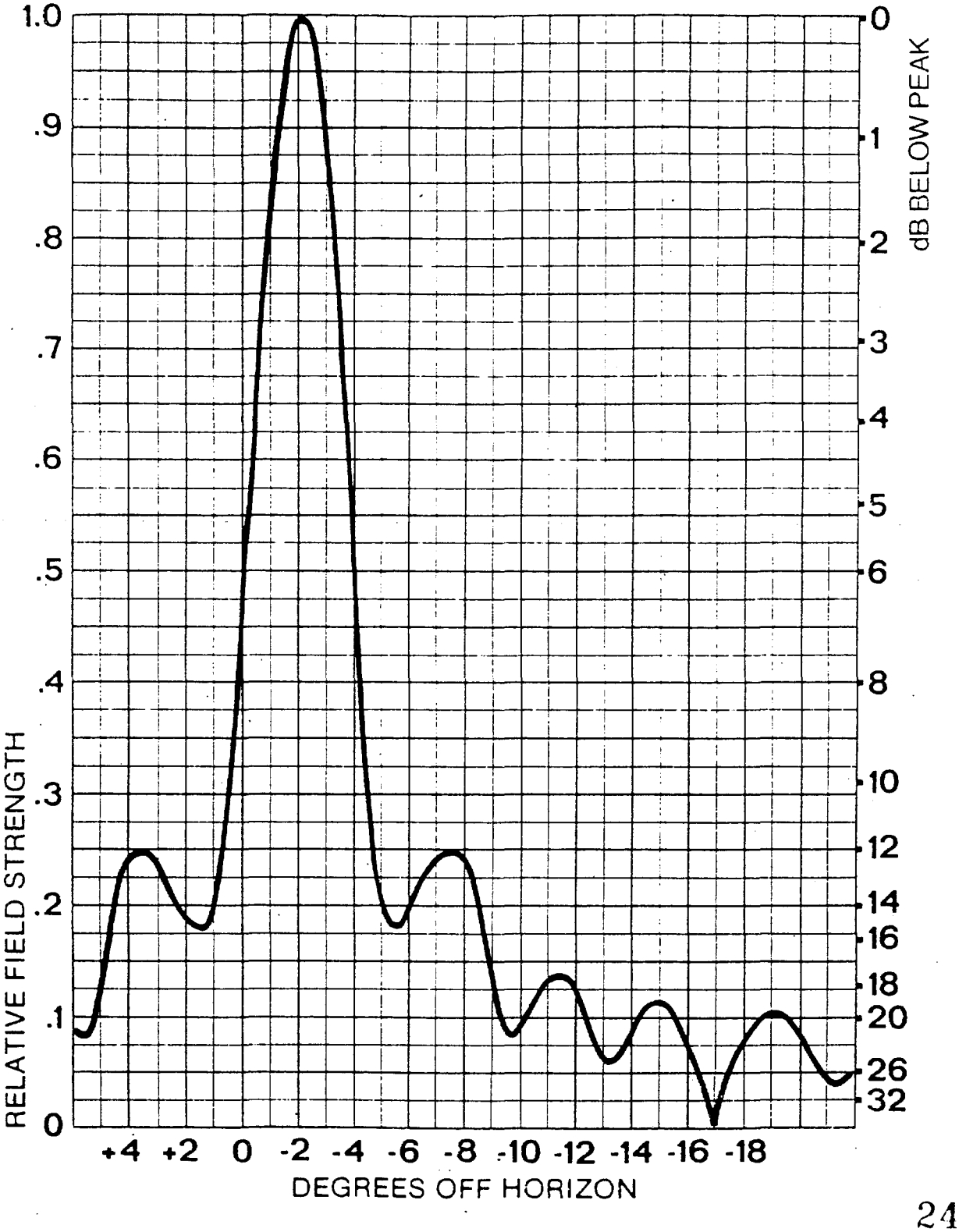
AZIMUTH	TABULATED GAIN	
0.00	1.000	
10.00	0.970	
20.00	0.920	Main Lobe
30.00	0.835	oriented at N-290-E
40.00	0.675	
50.00	0.525	
60.00	0.375	
70.00	0.280	
80.00	0.230	
90.00	0.200	
100.00	0.190	
110.00	0.190	
120.00	0.200	
130.00	0.220	
140.00	0.240	
150.00	0.270	
160.00	0.280	
170.00	0.285	
180.00	0.290	
190.00	0.285	
200.00	0.280	
210.00	0.270	
220.00	0.240	
230.00	0.220	
240.00	0.200	
250.00	0.190	
260.00	0.190	
270.00	0.200	
280.00	0.230	
290.00	0.280	
300.00	0.375	
310.00	0.525	
320.00	0.675	
330.00	0.835	
340.00	0.920	
350.00	0.970	



Bogner Broadcast Equipment Corp.
Westbury, N.Y. 11590

Figure 5
Horizontal Plot of
Relative Field from B16UC Ant
Oriented at N-290-E
Channel 56
Raystay Company
Red Lion, Pennsylvania

R. L. HOOVER
CONSULTING
TELECOMMUNICATIONS ENGINEER



Bogner Broadcast Equipment Corp.
Westbury, N.Y. 11590

Figure 6
Vertical Shape Factor
for B16UC Antenna
with -2° Depression Angle

Channel 56
Raystay Company
Red Lion, Pennsylvania

R. L. HOOVER
CONSULTING
TELECOMMUNICATIONS ENGINEER

United States of America

FEDERAL COMMUNICATIONS COMMISSION

DUPLICATE

LOW POWER TELEVISION/TELEVISION TRANSLATOR
BROADCAST STATION CONSTRUCTION PERMIT

Official Mailing Address:

RAYSTAY COMPANY
P. O. BOX 38
CARLISLE, PA 17013

Authorizing Official:

Keith A. Larson
Chief, LPTV Branch
Video Services Division
Mass Media Bureau

Grant Date: JUL 24 1990

Call sign: W23AW

Permit File No.: BPTTL-890309PA

This permit expires 3:00 am. local time 18 months after grant date specified above

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

This permit shall be automatically forfeited if the station is not ready for operation within the time specified (date of expiration) or within such further time as the Commission may allow, unless completion of the station is prevented by causes not under the control of the permittee. See Sections 73.3598, 73.3599 and 73.3534 of the Commission's Rules.

Equipment and program tests shall be conducted only pursuant to Sections 74.13 and 74.14 of the Commission's Rules.

Name of permittee:

RAYSTAY COMPANY

Station Location:

PA-LANCASTER

Frequency (MHz): 524.0 - 530.0 Offset: Zero

Channel: 23

Hours of Operation: Unlimited

1

Federal Communications Commission

Docket No. 93-75 Exhibit No. TBF 208

Presented by Emmons TBF

Disposition { Identified 12.2.93 / Received 12.2.93 / Rejected }

Reporter Ccl Wehner

Date 12.2.93

Transmitter location (address or description):

ERICK ROAD, LANCASTER, PA

Transmitter: Type accepted. See Section 74.750 of the Commission's Rules.

Antenna type: (directional or non-directional): Directional

Desc: BOGNER B16UA

Major lobe directions (degrees true): 286.0

Antenna coordinates: North Latitude: 40 03 47.0
West Longitude: 76 19 9.0

Transmitter output power (Visual) . . . . : 1.000 kW

Maximum effective radiated power (Visual) : 7.12 kW

Height of radiation center above ground . . . . : 42.0 Meters

Height of radiation center above mean sea level : 145.0 Meters

Overall height of antenna structure above ground (including obstruction lighting, if any) . . . . . : 57.0 meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

2

Special operating conditions or restrictions:

1. Prior to construction of the tower authorized herein, permittee shall notify AM Station(s) listed below so that the station(s) may commence determining operating power by the indirect method. Permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station(s). Both prior to construction of the tower and subsequent to the installation of all appurtenance thereon, antenna impedance measurements of the AM station(s) shall be made and sufficient field strength measurements, taken at 10 locations along each of eight equally spaces radials, shall be made to establish that the AM radiation pattern is essentially omnidirectional. Prior to or simultaneous with the filing of application for license to cover this permit, the results of the field strength measurements and the impedance measurements shall be submitted to the Commission in an application for the AM station(s) to return to the direct method of power determination.
(Revised March 14, 1983)

   WLPA 1490 KHZ, LANCASTER, PA

2. Prior to construction of the tower authorized herein, permittee shall notify AM Station(s) listed below so that, if necessary, the AM station(s) may determine operating power by the indirect method and request temporary authority from the Commission in Washington, D.C. to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. Permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station(s). Both prior to construction of the tower and subsequent to the installation of all appurtenances thereon, a partial proof of performance, as defined by Section 73.154(a) of the Commission's Rules, shall be conducted to establish that the AM array has not been adversely affected and, prior to or simultaneous with the filing of the application for license to cover this permit, the results submitted to the Commission.
(Revised March 14, 1983)

   WLAN 1390 KHZ, LANCASTER, PA

3

3. The authorization of a license to operate this station is conditioned upon the use of a transmitter that has been type accepted or meets Commission type acceptance requirements at a visual carrier frequency tolerance of plus/minus 1 kHz. In the event the transmitter has not been type accepted at this tolerance, the permittee shall, in the license application, provide full engineering data that demonstrates compliance with Section 74.750 (c)(3)(iii) of the Commission's Rules.

4. Your construction permit application did not identify the name, address and telephone number of a person who may be contacted in an emergency to suspend operation of this station, should such action be deemed necessary by the Commission. You are directed to provide this information along with your license application on FCC Form 347.

4

DUPLICATE

United States of America
FEDERAL COMMUNICATIONS COMMISSION
LOW POWER TELEVISION/TELEVISION TRANSLATOR
BROADCAST STATION CONSTRUCTION PERMIT

Official Mailing Address:

RAYSTAY COMPANY
P. O. BOX 38
CARLISLE, PA 17013

Authorizing Official:

Keith A. Larson
Chief, LPTV Branch
Video Services Division
Mass Media Bureau

Grant Date: JUL 24 1990

Call sign: W31AX

Permit File No.: BPTTL-890309NY

This permit expires 3:00 am. local time 18 months after grant date specified above

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

This permit shall be automatically forfeited if the station is not ready for operation within the time specified (date of expiration) or within such further time as the Commission may allow, unless completion of the station is prevented by causes not under the control of the permittee. See Sections 73.3598, 73.3599 and 73.3534 of the Commission's Rules.

Equipment and program tests shall be conducted only pursuant to Sections 74.13 and 74.14 of the Commission's Rules.

Name of permittee:

RAYSTAY COMPANY

Station Location:

PA-LANCASTER

Frequency (MHz): 572.0 - 578.0 Offset: Plus

Channel: 31

Hours of Operation: Unlimited

5

Transmitter location (address or description):

ERICK ROAD, LANCASTER, PA

Transmitter: Type accepted. See Section 74.750 of the Commission's Rules.

Antenna type: (directional or non-directional): Directional

Desc: BOGNER B16UA

Major lobe directions (degrees true): 72.5

Antenna coordinates: North Latitude: 40 03 47.0
West Longitude: 76 19 9.0

Transmitter output power (Visual) . . . . : 1.000 kW

Maximum effective radiated power (Visual) : 6.75 kW

Height of radiation center above ground . . . . : 52.0 Meters

Height of radiation center above mean sea level : 155.0 Meters

Overall height of antenna structure above ground (including obstruction lighting, if any) . . . . . : 57.0 meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

6

Special operating conditions or restrictions:

1. Prior to construction of the tower authorized herein, permittee shall notify AM Station(s) listed below so that the station(s) may commence determining operating power by the indirect method. Permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station(s). Both prior to construction of the tower and subsequent to the installation of all appurtenance thereon, antenna impedance measurements of the AM station(s) shall be made and sufficient field strength measurements, taken at 10 locations along each of eight equally spaces radials, shall be made to establish that the AM radiation pattern is essentially omnidirectional. Prior to or simultaneous with the filing of application for license to cover this permit, the results of the field strength measurements and the impedance measurements shall be submitted to the Commission in an application for the AM station(s) to return to the direct method of power determination.
(Revised March 14, 1983)

   WLPA 1490 KHZ, LANCASTER, PA

2. Prior to construction of the tower authorized herein, permittee shall notify AM Station(s) listed below so that, if necessary, the AM station(s) may determine operating power by the indirect method and request temporary authority from the Commission in Washington, D.C. to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. Permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station(s). Both prior to construction of the tower and subsequent to the installation of all appurtenances thereon, a partial proof of performance, as defined by Section 73.154(a) of the Commission's Rules, shall be conducted to establish that the AM array has not been adversely affected and, prior to or simultaneous with the filing of the application for license to cover this permit, the results submitted to the Commission.
(Revised March 14, 1983)

   WLAN 1390 KHZ, LANCASTER, PA

3. The authorization of a license to operate this station is conditioned upon the use of a transmitter that has been type accepted or meets Commission type acceptance requirements at a visual carrier frequency tolerance of plus/minus 1 kHz. In the event the transmitter has not been type accepted at this tolerance, the permittee shall, in the license application, provide full engineering data that demonstrates compliance with Section 74.750 (c)(3)(iii) of the Commission's Rules.

4. Your construction permit application did not identify the name, address and telephone number of a person who may be contacted in an emergency to suspend operation of this station, should such action be deemed necessary by the Commission. You are directed to provide this information along with your license application on FCC Form 347.

United States of America

DUPLICATE

FEDERAL COMMUNICATIONS COMMISSION

LOW POWER TELEVISION/TELEVISION TRANSLATOR
BROADCAST STATION CONSTRUCTION PERMIT

Official Mailing Address:

RAYSTAY COMPANY
P.O. BOX 38
CARLISLE, PA 17013

Authorizing Official:

Keith A. Larson
Chief, LPTV Branch
Video Services Division
Mass Media Bureau

Grant Date: JUL 2 4 1990

Call sign: W38BE

Permit File No.: BPTTL-890309TD

This permit expires 3:00 a.m. local time 18 months after grant date specified above

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

This permit shall be automatically forfeited if the station is not ready for operation within the time specified (date of expiration) or within such further time as the Commission may allow, unless completion of the station is prevented by causes not under the control of the permittee. See Sections 73.3598, 73.3599 and 73.3534 of the Commission's Rules.

Equipment and program tests shall be conducted only pursuant to Sections 74.13 and 74.14 of the Commission's Rules.

Name of permittee:

RAYSTAY COMPANY

Station Location:

PA-LEBANON

Frequency (MHz): 614.0 - 620.0 Offset: Zero

Channel: 38

Hours of Operation: Unlimited

9

Transmitter location (address or description):

625 QUENTIN RD., LEBANON, PA

Transmitter: Type accepted. See Section 74.750 of the Commission's Rules.

Antenna type: (directional or non-directional): Directional

Desc: BOGNER B16UA

Major lobe directions (degrees true): 205.0

Antenna coordinates: North Latitude: 40 19 49.0
West Longitude: 76 25 37.0

Transmitter output power (Visual) . . . . : 1.000 kW

Maximum effective radiated power (Visual) : 7.04 kW

Height of radiation center above ground . . . . : 36.0 Meters

Height of radiation center above mean sea level : 179.0 Meters

Overall height of antenna structure above ground (including obstruction lighting, if any) . . . . . : 48.0 meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

Special operating conditions or restrictions:

1. The authorization of a license to operate this station is conditioned upon the use of a transmitter that has been type accepted or meets Commission type acceptance requirements at a visual carrier frequency tolerance of plus/minus 1 kHz. In the event the transmitter has not been type accepted at this tolerance, the permittee shall, in the license application, provide full engineering data that demonstrates compliance with Section 74.750 (c)(3)(iii) of the Commission's Rules.

10

2. Your construction permit application did not identify the name, address and telephone number of a person who may be contacted in an emergency to suspend operation of this station, should such action be deemed necessary by the Commission. You are directed to provide this information along with your license application on FCC Form 347.

United States of America
FEDERAL COMMUNICATIONS COMMISSION

LOW POWER TELEVISION/TELEVISION TRANSLATOR BROADCAST STATION CONSTRUCTION PERMIT

Official Mailing Address:

RAYSTAY COMPANY
P. O. BOX 38
CARLISLE, PA 17013

Authorizing Official:

Keith A. Larson
Chief, LPTV Branch
Video Services Division
Mass Media Bureau

Grant Date: JUL 2 4 1990

Call sign: W55BP

Permit File No.: BPTTL-890309NZ

This permit expires 3:00 am. local time 18 months after grant date specified above

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

This permit shall be automatically forfeited if the station is not ready for operation within the time specified (date of expiration) or within such further time as the Commission may allow, unless completion of the station is prevented by causes not under the control of the permittee. See Sections 73.3598, 73.3599 and 73.3534 of the Commission's Rules.

Equipment and program tests shall be conducted only pursuant to Sections 74.13 and 74.14 of the Commission's Rules.

Name of permittee:

RAYSTAY COMPANY

Station Location:

PA-LEBANON

Frequency (MHz): 716.0 - 722.0 Offset: Zero

Channel: 55

Hours of Operation: Unlimited

12